

## ABSTRACT

A system for inserting an increased amount of information into DCT coefficients generated in blocks from image data is disclosed. Additional information is first inserted into input DCT coefficients in a block by changing at least one DCT  
5 coefficient of the input DCT coefficients to produce changed DCT coefficients. A level of one DCT coefficient selected from the changed DCT coefficients in the block is corrected to produce corrected DCT coefficients. The one DCT coefficient is selected so that a total code length of codes generated from the corrected  
10 DCT coefficients is equal to an original total code length of codes generated from the input DCT coefficients in the block.